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STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

3100 Port of Benton Blvd • Richland, WA 99354 • (509) 372-7950

December 4, 2007

Ms. Shirley J. Olinger, Manager
Office of River Protection
United States Department of Energy
P.O. Box 450, MSIN: H6-60
Richland, Washington 99352

Mr. William S. Elkins, Project Director
Bechtel National, Inc.
2435 Stevens Center Place, MSIN: H4-02
Richland, Washington 99354

RECEIVED
DEC 06 2007
EDMC

Re: Submittal of Hanford Facility RCRA Permit Modification Notification Form
24590-PTF-PCN-ENV-05-006; Class 1 Modification to the Hanford Facility Dangerous
Waste and Resource Conservation and Recovery Act (RCRA) Permit for the Treatment,
Storage, and Disposal of Dangerous Waste, Part III, Operating Unit 10 (Waste Treatment
and Immobilization Plant), WA7890008967

Dear Ms. Olinger and Mr. Elkins:

The Department of Ecology approves the referenced Class 1 Modification submitted
September 27, 2007. The approved Hanford Facility RCRA Permit Modification Notification
Form is enclosed. The form is stamped, "This document contains export controlled
information," but we did not enclose the export controlled information (ECI) to this letter.

Modification 24590-PTF-PCN-ENV-05-006 provides the updated Engineering Specification
(24590-PTF-3PS-MPC0-T0001, Revision 1) for the Pretreatment Facility Hot Cell Slurry
Pumps. This updates the specification to meet the requirements of the American Petroleum
Institute Standard 610, Eighth Edition.

Pursuant to the notification you provided in letter 07-ESQ-167, this specification contains
United States Department of Energy ECI. The referenced Class 1 Modification has been handled
under Ecology's Security Plan for the protection of ECI. Accordingly, the ECI will not be
distributed in electronic or paper copies of the Hanford Facility Dangerous Waste and RCRA
Permit.



Ms. Olinger and Mr. Elkins
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If there are any questions, contact me at 509-372-7882 or Robbie Biyani at 509-372-7884.

Sincerely,



Brenda Becker-Khaleel
WTP Permit Writer
Nuclear Waste Program

bcs/jc
Enclosure

cc electronic w/enc:

Dave Bartus, EPA
John Eschenberg, USDOE
Lori Huffman, USDOE
Tony McKarns, USDOE
Gae Neath, USDOE
Don Sommer, USDOE
William Taylor, USDOE
Julie Colby, BNI
Brad Erlandson, BNI
Peggy Fisher, BNI
Stan Hill, BNI
Dennis Klein, BNI
Sandi Murdock, BNI
Phil Peistrup, WGI

cc w/enc:

Administrative Record: Tank Waste Treatment Requirements ✓ H-0-8
Hanford Operating Record General File
Environmental Portal
USDOE-ORP Correspondence Control

Quarter Ending 9/30/2007

24590-PTF-PCN-ENV-05-006

Hanford Facility RCRA Permit Modification Notification Form
Part III, Operating Unit 10
Waste Treatment and Immobilization Plant

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Page 2 of 2: Hanford Facility RCRA Permit, Operating Unit 10, Waste Treatment and Immobilization Plant
Update Engineering Specification for PTF Hot Cell Slurry Pumps to Meet Requirements of API Standard 610,
Eighth Edition (24590-PTF-3PS-MPC0-T0001) in Appendix 8.7 of the Dangerous Waste Permit

Submitted by Co-Operator:

Reviewed by ORP Program Office:

D. A. Klein
D. A. Klein

6/21/07
Date

S. J. Olinger
S. J. Olinger

9/26/07
Date

**This Document
Contains Export
Controlled Information**

Quarter Ending 06/30/2007

24590-PTF-PCN-ENV-05-006

Hanford Facility RCRA Permit Modification Notification Form

Unit:

Waste Treatment and Immobilization Plant

Permit Part & Chapter:

Part III, Operating Unit 10**Description of Modification:**

The purpose of this Class 1 modification is to update Engineering Specification for PTF Hot Slurry Pumps to Meet Requirements of API Standard 610, Eighth Edition (24590-PTF-3PS-MPC0-T0001) in Appendix 8.7 of the Dangerous Waste Permit (DWP).

Please replace the following document in Appendix 8.7 of the Dangerous Waste Permit:

Appendix 8.7			
Replace	24590-PTF-3PS-MPC0-T0001	Rev. 0	With: 24590-PTF-3PS-MPC0-T0001 Rev. 1

This modification requests Ecology approval of the specific changes to this document that are identified by side bars. The major changes to this engineering specification are summarized below:

- Included design of supports for PUREX connector
- Expanded discussion on API 610 requirements
- Added Mechanical Requirements, such as maximum leakage rate into the process, seal box details, and requirements for operational features of drain valve
- Updated requirements for seismic loads
- Revised Remote Handling Requirements
- Expanded seller Test and Inspection requirements by adding ASME B31.3-1996 certification requirements for personnel performing non-destructive examinations
- Added requirements in Section 10.1.1 for seller to submit analysis or test results to meet seismic/quality criteria per ASME Section VIII, Div 1, Part UG, Section UG-23(d)
- Added Appendix D, WTP Specific Tailoring for API 610, Appendix E, PUREX Nozzle Bounding Loads, and Appendix F, WTP Specific Tailoring for AISC M016

There are no outstanding change documents associated with this engineering specification.

WAC 173-303-830 Modification Class: ¹²	Class 1	Class ¹ 1	Class 2	Class 3
Please mark the Modification Class:	X			

Enter Relevant WAC 173-303-830, Appendix I Modification citation number: A.1 and A.3

Enter wording of WAC 173-303-830, Appendix I Modification citation:

A.1. Administrative and informational changes

A.3. Equipment replacement or upgrading with functionally equivalent components (e.g., pipes, valves, pumps, conveyors, controls)

Modification Approved: ☒ Yes ☐ No (state reason for denial)

Reason for denial:

Reviewed by Ecology:

S. Dahl 12/4/07
S. Dahl Date

¹ Class 1 modifications requiring prior Agency approval.

² If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to a Class '1, if applicable.